Disc 9 - OpSem and Lambda Calculus

Thursday, November 4, 2021 11:09 AM

Operational Semantics

2. Using the rules given below, show: $1 + (2+3) \Rightarrow 6$

4. Using the rules given below, show: A; let y=1 in let x=2 in $x\Rightarrow 2$

5) Recall last week we went over lexing and parsing:

type expr = | Int of int | Plus of expr * expr

Implement an expression evaluator, that takes an environment closure and an expression, and returns a value after evaluating it.

Key Notes (Taken from OpSem rules, which will be given on the project)

- Integers evaluate to themselves
- Plus works on integers (throw a TypeError otherwise)

let rec eval expr env e =